

Exhibit 1

Sequence ID Numbers

Table detailing the sequences in the application identified by a Sequence ID Number.

SEQ ID NO	Sequence	Page/Figure	Description of Sequence
1	EVPGSQHI	9	Residues 51-58 of the <i>Escherichia coli</i> EtxB and <i>Vibrio cholerae</i> CtxB proteins (the β 4- α 2 exposed loop). May be mutated at any site.
2	EVPGSQHI	9	Residues 51-58 of the <i>Escherichia coli</i> EtxB and <i>Vibrio cholerae</i> CtxB proteins (the β 4- α 2 exposed loop). May be mutated at sites 51, 56 or 57.
3	EVPGSQHI	9	Residues 51-58 of the <i>Escherichia coli</i> EtxB and <i>Vibrio cholerae</i> CtxB proteins (the β 4- α 2 exposed loop). May be mutated at site 57.
4	SIINFEKL	45	Synthetic peptide used to construct EtxB conjugates.
5	CSIIINFEKL	45	Synthetic peptide used to construct EtxB conjugates.
6	CEKLAGFGSIINFEKL	45	Synthetic peptide used to construct EtxB conjugates.
7	CAVGAGATAEESIINFEKL	45	Synthetic peptide used to construct EtxB conjugates.
8	CEKLAGFGAVGAGATAESIINFEKL	45	Synthetic peptide used to construct EtxB conjugates.
9	CEKLAGFGARGAGATAESIINFEKL	45	Synthetic peptide used to construct EtxB conjugates.
10	CEKLAGFGAVGAGATAESIINFEKLTEWTS	45	Synthetic peptide used to construct EtxB conjugates.
11	AGFGAVGAGATAEE	49	Loop segment of the Pol-peptide of HSV-1

SEQ ID NO	Sequence	Page/Figure	Description of Sequence
12	TPQNTDLC A EYHNTQIHTL NDKLFSYTES LAGKREMAII TFKNGATFQV EVPGSQHIDS QKKAIERMKD TLR IAYL TEA KVEKLCVWNN KTPHATIAAIS MAN	Figure 1	CtxB – <i>Vibrio cholerae</i> cholera toxin B subunit protein sequence
13	TPQNTDLC A EYHNTQIHTL NDKLFSYTES LAGKREMAII TFKNGATFQV EVPGSQAIDS QKKAIERMKD TLR IAYL TEA KVEKLCVWNN KTPHATIAAIS MAN	Figure 1	Mutant CtxB (H57A)
14	APQTITELCS EYRNTQIYTI XDKILSYTES MADKREMVII TFKSGETFQV EVPGSQHIDS QKKAIERMKD TLRIT YLTET KIDKLCVWNN KTPISIAAIS MEN	Figure 2	Mutant EtxB (G33D)
15	APQTITELCS EYRNTQIYTI XDKILSYTES MAGKREMVII TFKSGETFQV EVPGSQHIDS QKKAIERMKD TLRIT YLTET KIDKLCVWNN KTPISIAAIS MEN	Figure 6	EtxB – <i>Escherichia coli</i> heat-labile enterotoxin B subunit protein sequence
16	APQTITELCS EYRNTQIYTI XDKILSYTES MAGKREMVII TFKSGETFQV EVPGSQAIDS QKKAIERMKD TLRIT YLTET KIDKLCVWNN KTPISIAAIS MEN	Figure 11	Mutant EtxB (H57A)

SEQ ID NOS 4-10:

Page 45

Synthetic peptides used to construct EtxB conjugates, as listed in Table 1, page 45.

Peptide	Sequence	M _w	Seq ID No
8mer	SIINFEKL	945	4
9mer	CSIINFEKL	1048	5
16mer	CEKLAGFGSIINFEKL	1751	6
19mer	CAVGAGATAEESIINFEKL	1905	7
26mer	CEKLAGFGAVGAGATAESIINFEKL	2608	8
26mer*	CEKLAGFGARGAGATAESIINFEKL	2665	9
31mer	CEKLAGFGAVGAGATAESIINFEKLTWTS	3212	10

SEQ ID NO11:

Page 49

Loop segment of the Pol-peptide of HSV-1

AGFGAVGAGATAEE

SEQ ID NO12:

Figure 1

Protein sequence of *Vibrio cholerae* CtxB

TPQNITDLCA EYHNTQIHTL NDKIFSATES LAGKREMAII TFKNGATFQV EVPGSQHIDS
QKKAIERMKD TLRIAYLTEA KVEKLCVWNN KTPHAIAAIS MAN

SEQ ID NO13:

Mutant CtxB protein sequence (H57A)

TPQNITDLCA EYHNTQIHTL NDKIFSATES LAGKREMAII TFKNGATFQV EVPGSQAIDS
QKKAIERMKD TLRIAYLTEA KVEKLCVWNN KTPHAIAAIS MAN

SEQ ID NO14:

Mutant EtxB protein sequence (G33D)

APQTITELCS EYRNTQIYTI XDKILSYTES MADKREMVII TFKSGETFQV EVPGSQHIDS
QKKAIERMKD TLRITYLTET KIDKLCVWNN KTFISIAAIS MEN

SEQ ID NO15:

Protein sequence of *Escherichia coli* EtxB

APQTITELCS EYRNTQIYTI XDKILSYTES MAGKREMVII TFKSGETFQV EVPGSQHIDS
QKKAIERMKD TLRITYLTET KIDKLCVWNN KTFISIAAIS MEN

SEQ ID NO16:

Mutant EtxB protein sequence (H57A)

APQTITELCS EYRNTQIYTI XDKILSYTES MAGKREMVII TFKSGETFQV EVPGSQAIDS
QKKAIERMKD TLRITYLTET KIDKLCVWNN KTFISIAAIS MEN